

WPIL

2/2 WPIL - (C) Derwent

AN - 1986-107825 [17]

XP - N1986-079418

TI - Information broadcasting method for distributed computing network -
accepting every message broadcast by fault-free processors within
bounded time

DC - T01

PA - (IBMC) IBM CORP

IN - AGHILL H; CRISTAIN FI; STRONG HR

NP - 6

NC - 6

PN - EP-178473 A 19860423 DW1986-17 Eng 24p *

DSR: DE FR GB

- JP61098037 A 19860516 DW1986-26

AP: 1985JP-0177794 19850814

- US4644542 A 19870217 DW1987-09

AP: 1984US-0661514 19841016

- CA1223372 A 19870623 DW1987-29

- EP-178473 B 19911204 DW1991-49

DSR: DE FR GB

- DE3584816 G 19920116 DW1992-04

PR - 1984US-0661514 19841016

CT - WO8403158

4.Jnl.Ref; A3...8845; No-SR.Pub

IC - G06F-011/28 G06F-013/00 G06F-015/16 H04L-001/22 H04L-011/18

AB - EP-178473 B

In response to a message broadcast request originating at any processor S, a message M is formatted and is assigned a network unique identifier and a timestamp. The message is added to the processor's log. The message, including the assigned values, is signed to form a message X which is then broadcast to network adjacent processors P. In response to the receipt of a signal message X by each processor P from a network adjacent processor S, its authenticity is verified and from it is derived the original message M and a sequence of signatures of all previous processors that have signed X.

- At each processor Q within the set of processors network adjacent to processor S which funds the message M valid, message M is appended to its log, the message X is signed. The signed message is broadcast to all its network adjacent neighbours except the processor from which the message was received, and, after a given amount of time from the time of message origination, the message M is accepted if it is determined to be valid. (24pp Dwg.No.0/17)

MC - EPI: T01-C02 T01-J02

UP - 1986-17

UE - 1986-26; 1987-09; 1987-29; 1991-49; 1992-04

Search statement 12

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AN - 2000-015175 [02]

XP - N2000-011953

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